



## PRESS RELEASE

---

**PRESS RELEASE**

Berlin, May 8th, 2014

Page 1 | 3

---

### **Fraunhofer FOKUS and Opera demonstrate DRM interoperability at the 4th FOKUS Media Web Symposium, using Microsoft's open Content Decryption Module Interface specification**

#### **Integration of PlayReady CDMi into Opera Devices SDK for Linux on a set-top-box.**

Fraunhofer FOKUS in partnership with Opera Software and Microsoft advances Digital Rights Management (DRM) interoperability and HTML5 for premium video delivery. The implementation by Fraunhofer FOKUS integrates Microsoft's open Content Decryption Module Interface (CDMi) with Opera Devices SDK (Software Development Kit) 3.x series for Linux platforms, enabling the attachment of the Microsoft PlayReady DRM platform component to the Opera Unified Video Architecture (UVA) on a set-top-box.

The implementation was integrated with a slightly modified version of the DASH Industry Forum's in dash.js reference client to be compatible with Opera Devices SDK, offering support for DASH via the Encrypted Media Extensions (MSE).

"We are thrilled about this close collaboration with Opera and Microsoft. And we look forward to providing this new functionality to our customers and partners, as they explore solutions to realize the promise of HTML5, DASH and address the challenges of multi-screen, cross-platform media scenarios," says Dr. Stefan Arbanowski, director of competence center FAME at Fraunhofer FOKUS. "At the 4th FOKUS Media Web Symposium we will demonstrate the results of this cooperation for the first time to the public."

Frode Hernes, VP Products TV and Connected Devices at Opera Software notes: "The CDMi approach is a great way to integrate multiple DRM systems into the

---

#### **Press contact**

**Natalie Nik-Nafs** | Competence Center Future Applications and Media (FAME) | Fraunhofer FOKUS

natalie.nik-nafs@fokus.fraunhofer.de

Telefon +49 (0) 30 3463-7210 | Fax +49 (0) 30 3463-8000

Kaiserin-Augusta-Allee 31 | 10589 Berlin | <http://www.fokus.fraunhofer.de>



browser engine. Fraunhofer FOKUS' CDM integration, with CDMi deployment and integration on different platforms can enable cost effective integration and interoperability of various DRM systems and complement the integrations already in our product."

---

**PRESS RELEASE**

Berlin, May 8th, 2014

Page 2 | 3

---

Microsoft has developed a generalized, open interface enabling open source browsers to support Encrypted Media Extensions – the Content Decryption Module interface (CDMi) specification. The current PlayReady release has provided an example implementation of this interface which works with the PlayReady Device Porting kit.

Chris Santini, Director of Strategy and Business Planning at Microsoft explains: "DRM interoperability is a critical step forward to the future of Internet delivered Media. It enables all browser vendors including open source, to integrate DRM technology in their HTML5 enabled browsers. This enables protection for premium content and the widest device reach possible for content owners, OEMs and service providers."

In September 2013 at IBC in Amsterdam, Fraunhofer FOKUS introduced a Content Decryption Module (CDM) implementation for Microsoft PlayReady DRM integrated in their FAMIUM browser. Fraunhofer FOKUS, a leading institute specialized in the technology advancements for Future Applications and Media, announced the release of a browser independent solution in their FAMIUM platform, including W3C MSE, EME, and a Content Decryption Module (CDM) implementation to interface with Microsoft PlayReady DRM.

Fraunhofer FOKUS' FAMIUM is an end to end platform for the creation and delivery of protected adaptive bitrate content. The FAMIUM CDM connection to the Microsoft PlayReady CDM-interface provides a significant addition to the platform, extending content protection to premium video on the web to browsers without plug-ins, leveraging the new ISO MPEG standards DASH (Dynamic Adaptive streaming over HTTP) and CENC (Common Encryption) to create DRM-interoperable media encoding.

Fraunhofer FOKUS' competence center Future Applications and Media (FAME) provides the most recent technologies and advancements that enable a standardized

---



cross-platform media use on televisions, set-top boxes, personal computers and mobile phones.

The 4th FOKUS Media Web Symposium 2014 is providing a platform for international experts to discuss current media trends such as Multiscreen-Solutions, Web Technologies, Connected TV, Streaming Media and many more, taking place in Berlin, Germany, May 08-09, 2014. More information at <http://www.fokus.fraunhofer.de/go/mws>.

### **About Opera Software ASA**

Opera products enable more than 350 million internet consumers worldwide to discover and connect with the content and services that matter most to them, no matter what device, network or location. In turn, we help advertisers reach the audiences that build value for their businesses. Opera also delivers products and services to more than 120 mobile operators around the world, enabling them to provide a faster, more economical and better network experience to their subscribers.

From family photos and funny videos to business ideas that change the world economy, the internet has always been about discovery. Whether you are a consumer getting online for the first time, or a multinational corporation trying to reach the right audience, Opera can help you discover more online.

Opera Software ASA is listed on the Oslo Stock Exchange under the ticker symbol OPERA. 'Opera', 'Opera Software', 'Opera Mini' and the 'O' logo are trademarks of Opera Software ASA. All other trademarks are the property of their respective owners. Learn more about Opera at [www.opera.com](http://www.opera.com).

---

### **Fraunhofer FOKUS**

Fraunhofer FOKUS, based in Berlin, Germany, explores how communication networks can contribute to more convenient and more secure living. Thus, the institute addresses important challenges in society, including access to information, smart mobility and modern governmental administration that is efficient as well as accessible from everywhere.

Besides technical infrastructures, Fraunhofer FOKUS develops manifold practical solutions. As an independent research institute, Fraunhofer FOKUS is an important link between industry, governmental administration and the people. The institute is developing the communication architecture of tomorrow both on its own and together with strong partners. In particular, Fraunhofer FOKUS is specialized in the development of multi-domain networks as well as interoperable, user-centric solutions. With 25 years of experience, the institute is one of the most important ICT research partners in Germany.

### **Press contact**

**Natalie Nik-Nafs** | Competence Center Future Applications and Media (FAME) | Fraunhofer FOKUS  
natalie.nik-nafs@fokus.fraunhofer.de  
Telefon +49 (0) 30 3463-7210 | Fax +49 (0) 30 3463-8000  
Kaiserin-Augusta-Allee 31 | 10589 Berlin | <http://www.fokus.fraunhofer.de>

---

### **PRESS RELEASE**

Berlin, May 8th, 2014

Page 3 | 3

---